USER'S MANUAL
AGILENT TECHNOLOGIES
Washer : 1600 PRO DPSS
Serial Number : 62070049
Tag Name : 09-GW-001

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LANCER

PRECAUTIONS TO BE TAKEN BEFORE USE

- Users must be trained before using the washer.

- The staff that use or repair this washer must have followed a complete training referring its use and maintenance. This training must include the selection and understanding of the washing cycle, the loading and unloading of the baskets and the handling of the washing products.

- The staff in contact with the detergent products and its emanations, which could be used in this washer, must have knowledge of the safety data sheet of the used products as well as the detailed instructions about the dangers and the detection of toxic product leaks.

- The training of the users and technicians must be done regularly and always before the first use of the washer. A written register of these training must be kept in order to prove the presence and the understanding of the interested parties.

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CHAPTER 1 INTRODUCTION

You have in your possession a LANCER washer.

Its good working and your entire satisfaction depend on the attention you pay when reading this guide.

You will find here some advices about the use, the loading and the maintenance. Follow them, as they have been written in your interest.

Before using your washer, learn to know it and use it rightly, so as to it can develop its tasks many years.

This manual has been conceived with the purpose of introducing to you the PRO washer range, you will also find the description of the different chapters included in this utilization manual.

1 PRO WASHERS

2 USER'S MANUAL

1. PRO WASHERS

Your PRO washer has been specially developed to meet the increasing demand of the pharmaceutical industry for high performance washing and disinfection systems which satisfy cGMP guidelines and the latest FDA requirements.

The basic characteristics of the PRO range are:

- the quality of washing (mechanical and microbiological action) and of drying
- the quality of the construction materials
- washing in various modulable levels
- the simplicity of use
- traceability.

The PRO washers are developed and manufactured following the standards.

A "CE conformity declaration" is delivered with the machines.

2. USER'S MANUAL

The present manual is destined to facilitate the operations of use, handle, maintenance and repair.

This only concerns the operations to be done by a level 1 code owner.

Before using your washer and in order to obtain the best service read carefully the following advices and recommendations. Follow them, as they have been written in your interest.

Respecting the precautionary measures of use, the washer must only be used for the washing operations described in the manual.

This manual is divided in 6 chapters, completed by an appendix.

You have just ended the reading of **chapter 1.**

Chapter 2 will familiarize yourself with your washer in order to use it as correct as possible.

Chapter 3 describes step by step the washing process, of launching a cycle at the end of this one.

Chapter 4 present your traceability system available in the washer.

Chapter 5 describes the operations of internal and external maintenance of your washer in order to keep it in good state as long possible.

Chapter 6 is a description of the different alarms that you could find when using your washer.

All over this manual, we have incorporated brief comments and icons to help you locate the important information.

When you see this icon, it means:

: ATTENTION ! ! PAY SPECIAL ATTENTION ! !

CHAPTER 2 BEFORE YOU START

After having installed rightly your washer, following the installation manual, you can begin to familiarize with this one.

You will find in this chapter all the information of indispensable knowledge to assure the good working and avoid material and corporal damage.

1 PRESENTATION OF THE CONTROL PANEL

2 OPENING OF THE DOORS

3 SAFETY ADVICES

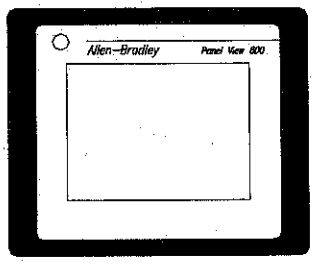
4 WASHING PRODUCTS

5 PRINTER

6 USING OF THE ACCESSOIRES

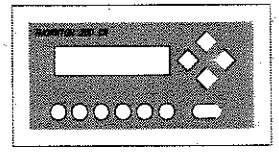
1. PRESENTATION OF THE CONTROL PANEL

1.1 LOADING SIDE INSTRUMENT PANEL



-1-

-7- -3- -4- -2-

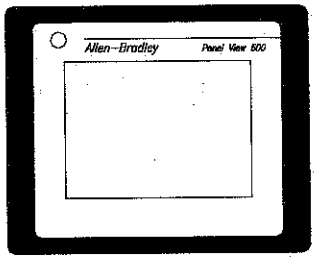


-5-

-6-

-1-	DISPLAY
-2-	YELLOW LIGHT (OPENED DOOR)
-3-	EMERGENCY STOP
-4-	DOOR OPENING BUTTON
-5-	CONDUCTIVITY METER
-6-	APPARATUS POWER-SWITCH
-7-	SWITCH ON BUTTON

1.2 UNLOADING SIDE INSTRUMENT PANEL

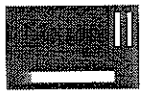


-1-

-3-

-4-

-2-



-5-

-1-	DISPLAY
-2-	YELLOW LIGHT (OPENED DOOR)
-3-	EMERGENCY STOP
-4-	DOOR OPENING BUTTON
-5-	PRINTER

2. OPENING OF THE DOORS

For optimal security, the doors of the washer (pass-through model) are equipped with a pneumatic inter-lock device.

This inter-lock device is designed in such a way that the operator cannot open the door when :

- The washer is switched off
- The wash cycle is launched
- The measured temperature in the chamber is over 60°C
- There is an alarm
- The emergency button is pressed

A door opening button is located on the control panel. Turn the main switch **-6-** and press switch on button **-7-** to switch the washer ON. Press door opening button **-4-** (loading side) to unlock the door. Open the door and load the washer. A yellow light **-2-**, on unloading side will indicate that the loading door has been opened.

Close the door and start the washing cycle. The door locking is activated and the door opening buttons have no effect.

At the end of the cycle, press door opening button **-4-** (unloading side), open the door and unload the washer. This operation is highlighted on loading side by a yellow lamp.

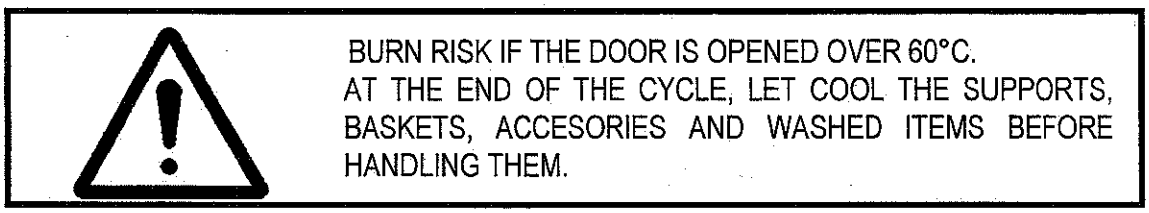
Close the door, the machine returns to its initial status.

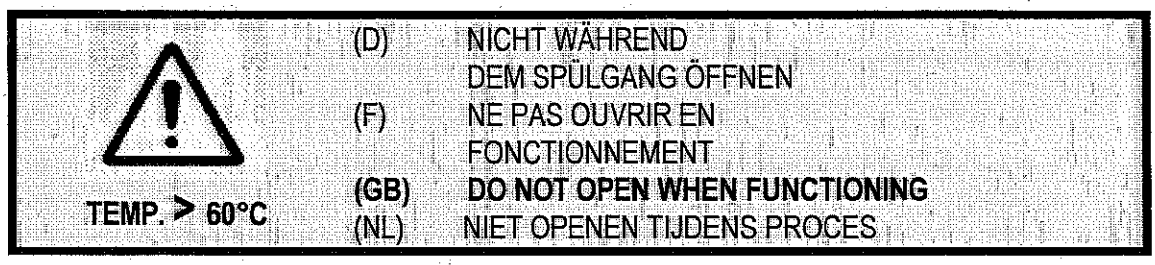
3. SAFETY ADVICES

3.1 PRECAUTIONS FOR USE

BEFORE START, VERIFY THAT THE TAPS OF ENTRANCE OF WATER ARE OPENED.

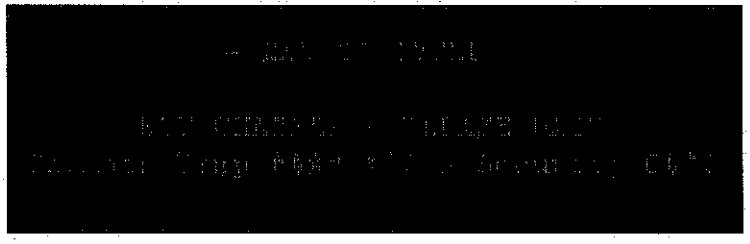
EVERY MAINTENANCE AND TECHNICAL INSTALLATION INTERVENTION MUST BE DONE BY A TECHNICIEN ENTITLED TO WORK UNDER TENSION.


BURN RISK IF THE DOOR IS OPENED OVER 60°C.
AT THE END OF THE CYCLE, LET COOL THE SUPPORTS, BASKETS, ACCESORIES AND WASHED ITEMS BEFORE HANDLING THEM.


TEMP. > 60°C
(D) NICHT WÄHREND DEM SPÜLGANG ÖFFNEN
(F) NE PAS OUVRIR EN FONCTIONNEMENT
(GB) DO NOT OPEN WHEN FUNCTIONING
(NL) NIET OPENEN TIJDENS PROCES

BURN RISK if the door is opened over 60°C.

A preventive message appears in the screen at the end of the cycle.



Possibility of a cold ventilation at the end of the program.

3.2 MAXIMUM CHARGE

Respect the maximum charge allowed for the loading at the door.

Do not climb or sit on the doors.

Maximum charge allowed on the different levels are :

	1600 PRO DPSS
DOOR LEVEL	100 Kg
UPPER LEVEL	35 Kg

3.3 USE

The use of the washer in explosive atmosphere as well as the use of solvents, hydrocarbons, acids (sulphuric, nitric, hydrochloric and these at low concentrations), alcohols and derived and any inflammable are strictly forbidden.

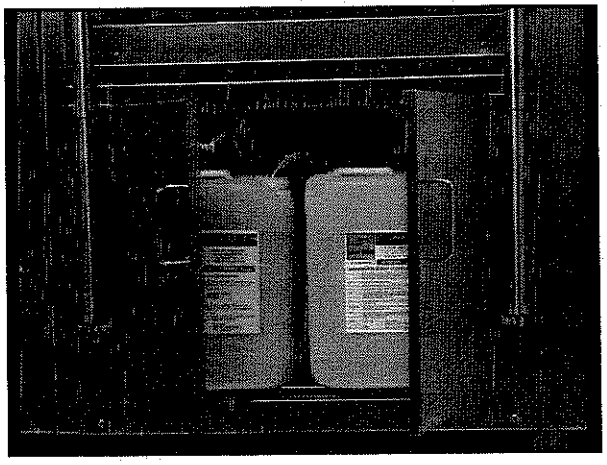
Do not leave the door half-open. for safety precautions, the door must be kept either in completely open position or completely locked.

4. WASHING PRODUCTS

THE PROGRAMS PREESTABLISHED WITH THIS WASHER HAVE BEEN VALIDATED WITH THE LANCER WASHING PRODUCTS.

4.1 PRODUCT TANK AREA

The 1600 PRO washers are equipped with a product tank casing located front of washer (loading side for the double door washers) for two tanks (10 litres or 2,5 gallons).



You will put the product tanks outside the washer if the volume exceeds the casing or the product tanks number is most important than the standard.

4.2 INSTRUCTIONS TO RESPECT IN CASE OF HANDLING THE WASHING PRODUCTS

ANYBODY CALLED TO HANDLE THE WASHING PRODUCTS MUST BE INFORMED OF THE IMPLICATED RISKS TO THESE PRODUCTS.

4.3 INSTRUCTIONS TO RESPECT IN CASE OF CHANGING THE PRODUCT FORMULA

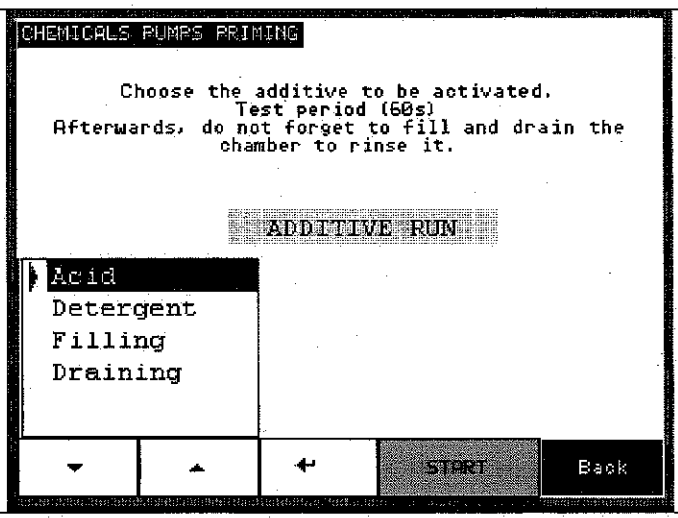
When a product is changed by another one, it is imperative to rinse with water the circuit of the corresponding product before do the change.

Intake duration of the washing products in the programs must be modified in consequence (accessible only to level 3 code owner).

4.4 CHANGE OF THE TANKS

To enter main menu, see page 20.

This menu is used to prime the dosing pump after chemical tank change.

OPTIONS	
List selection	**Additive pump, filling, draining. Choose here what you want to activate.**
START	How to launch a pump priming : **Detergent or acid pump selected, press on START key to start the pump priming for 60s. The pump name is displayed during the pump priming.** How to stop a pump priming : **If the output is unselected during the pump priming (modification of the list selection), the pump priming is stopped.** Filling selected or Draining selected : **pressing on START key fill or drain the chamber.**
Back	**Return to the MAIN MENU**

5. PRINTER

5.1 PRINTER VERIFICATION

Before launching a cycle or printing again the ticket, check the quantity of paper in the roller of the printer.

If a continual red trace appears, replace it by a new one (see page 16).

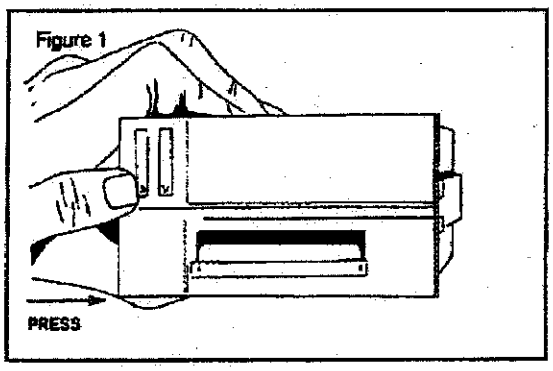
If the quality of the ink during the precedent impression of the ticket was not enough for a good reading, consider changing the ribbon of the printer (see page 17).

5.2 CHANGE OF THE PAPER ROLLER

There are two buttons on the front panel of the printer. One button operates the front door latch, the other controls the paper feed.

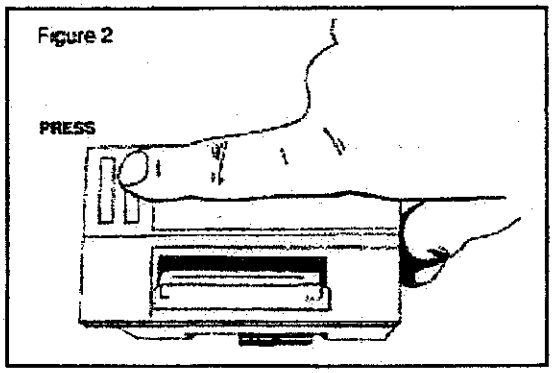
Door Latch:

With the printer mounted in data mode attitude (paper emerging downwards) so that the two control buttons are at upper left, to open the front door of the printer, press the door latch (the outermost of the two buttons) sideways towards the other button, using thumb or forefinger (see Figure 1). This will release the latch and the door can be swung outwards to expose the paper roll.



Paper Feed Button.

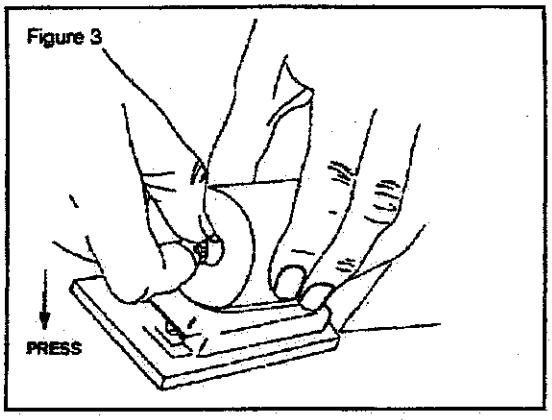
With the printer in data mode attitude press the top part of the innermost button to activate paper feed (see Figure 2). This will continue for as long as the button is held down.



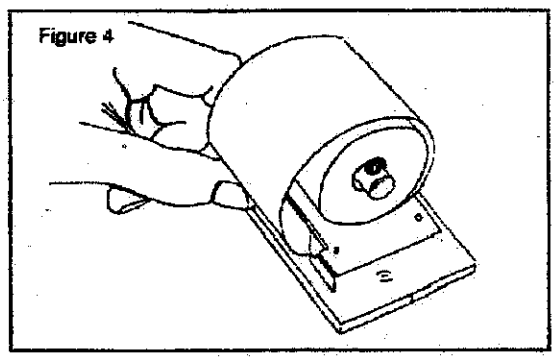
Paper Roll Replacement:

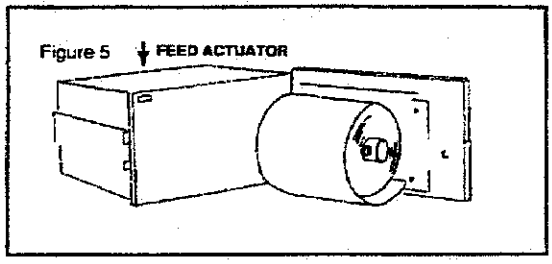
Open the printer door as described above and swing the door open to expose the paper roll. If any paper remains in the printer, tear the end off against the paper tear bar and carefully pull the remaining paper backwards, from the rear of the mechanism mounting chassis, until the free end emerges. Press the paper roll retaining button inwards using the thumb and forefinger (see figure 3) and remove the empty roll.

Take a new roll of paper, and separate the end from the rest of the roll. Remove any damaged or gummed part of the paper, and cut the free end squarely with a pair of scissors or a knife, leaving a clean straight edge to present to the printer mechanism.



Thread the new roll past the retention button onto the spindle with the paper unspooling in an anticlockwise direction when viewed from the open end. (See Figure 4). Press the paper feed actuator arm (at upper left in data mode) until the mechanism grips the paper and pulls it through to the front of the printer. (See Figure 5).





Turn the paper roll so that any loose turns are wound snugly against the roll. Close the printer door.

More paper may now be fed through by pressing the paper feed button on the front panel. (see Figure 2).

5.3 CHANGE OF THE RIBBON CARTRIDGE

Ribbon Cartridge Replacement:
Tear off any paper emerging from the printer.
Open the printer door by pressing the door latch inwards.
Place forefinger against the lower edge of the mechanism mounting chassis and thumb against the base of the door (see Figure 6).

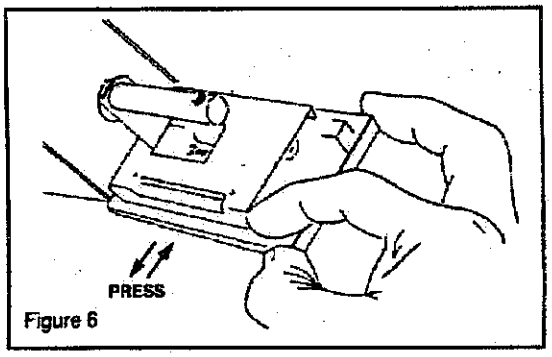


Figure 6

Carefully press the door and chassis in vertically opposite directions until the catch is released. Do not pull the door and chassis apart without first releasing the catch.
Swing the chassis back, leaving the door fully open. This will expose the printer mechanism and ink ribbon cartridge.
Press down on the end of the ink ribbon cartridge marked 'PUSH' (see Figure 7) and carefully remove the used cartridge.

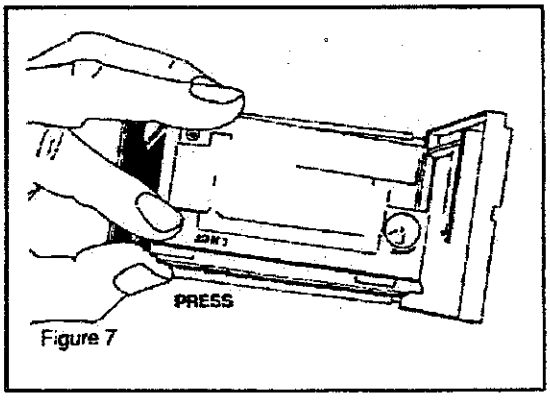
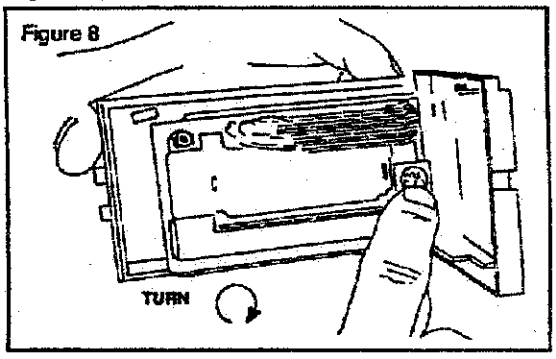


Figure 7

Fit a replacement cartridge, ensuring that the paper lies between the ribbon and the steel printer platen.

Check that the ribbon cartridge spindle is correctly seated over the printer ribbon drive shaft, and snap the cartridge into place.
Ensure that the ribbon is taut and parallel to the paper.
If necessary tighten the ribbon by turning the faceted disc clockwise using fingernail (see Figure 8).



If there is some paper protruding from the front of the printer mechanism, ensure that it will pass clearly through the guide channel and past the tear bar before snapping the chassis shut against the back of the door.
Turn the paper roll by hand so that any loose turns are wound snugly against the roll.
Close the door and check that the paper flows freely, using the paper feed button.

Consumables available
A consumables pack (Stock No. A160CBP) is available containing five 19m rolls of paper and two Epson ribbon cartridges. Use of this paper is recommended, as most paper rolls from other sources are too large to fit within the printer housing, and may be of inferior quality causing dust and wear.

6. USING OF THE ACCESSORIES

6.1 CHOICE OF ACCESSORIES, BASKETS AND RACKS

THE CHOICE OF ACCESSORIES, BASKETS AND RACKS IS VITAL.

In the case of flasks washing, it is very important that the flow rate of the injectors used must be lower than the flow capacity of the flasks to be washed in order to avoid gradual filling of the flasks during the washing cycle. A narrow neck hindering the fast draining of water gives mediocre results. The mechanical action of the jet is absorbed by the water contained in the glassware. It is indispensable to use baskets with injectors of suitable diameter and, above all, to secure lightweight items with a cover grille (GC) or an injector cover grille (GCI).

6.2 PIECES TO BE WASHED

Place the items correctly on or in the baskets or racks so that they do not strike one against the other during the washing cycle. Check that they are correctly positioned, secure them with a cover grille (GC) or an injector cover grille (GCI).

You should only use baskets that are suitable for the parts to be washed. When your washer is put into service, our technicians will give you useful advice on the best way to load it.

Close the door, and the washing cycle can begin.

IF THE LOADINGS TO BE HANDLED ARE SUPERIOR TO 25 KG THERE IS PLACE TO USE A HANDLING SYSTEM.

CHAPTER 3 USING YOUR WASHER

This chapter has been written in order to let you use your washer.

You will find here the process of launching of the washing cycles appropriated to the materials to wash following the proposed programs, as well as the handling, which is necessary to make at the end of the cycle.

1 LAUNCHING OF A CYCLE

2 MAIN MENU

3 CYCLE START MENU

4 INFORMATION DURING THE CYCLE

5 END OF CYCLE

6 WASHING PROGRAMS

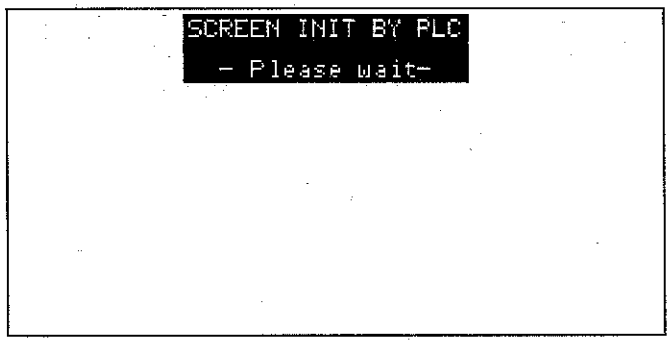
7 PASSWORDS

1. LAUNCHING A CYCLE

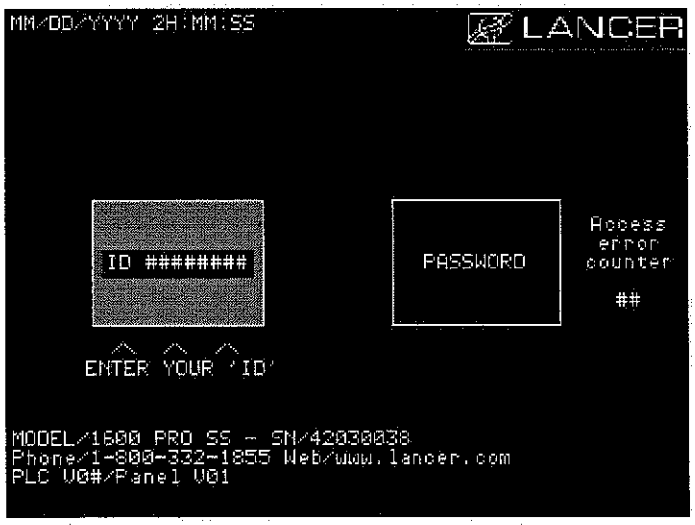
1.1 SWITCHING ON

Turn the main switch **-6-**.
Press switch on button **-7-**.

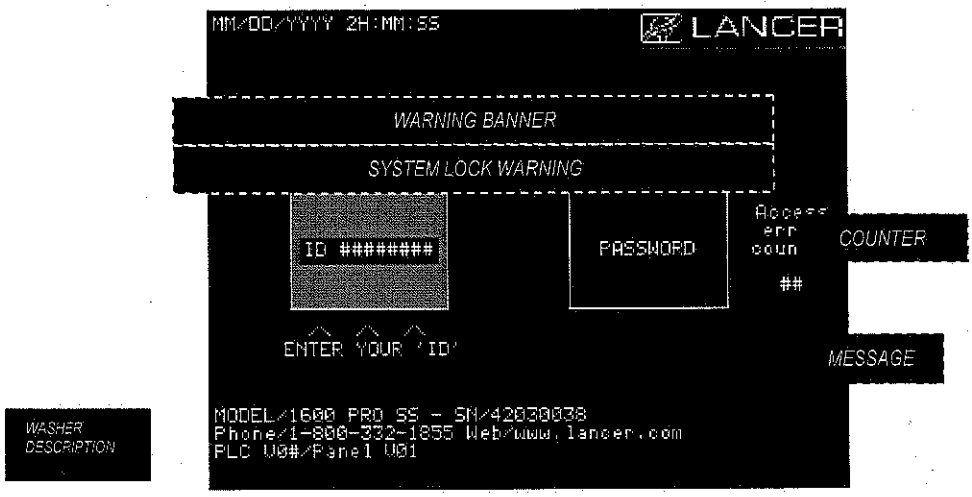
Displayed during the initialization.



Displayed after the initialization.

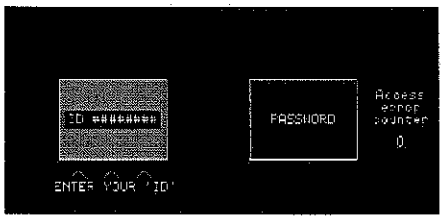
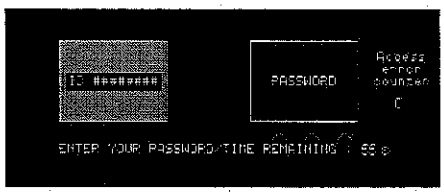


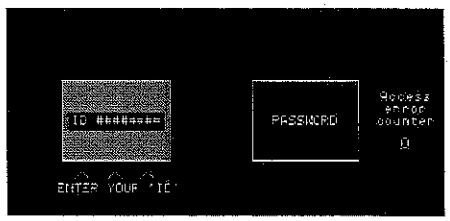
1.2 DESCRIPTION OF THE ACCESS SCREEN

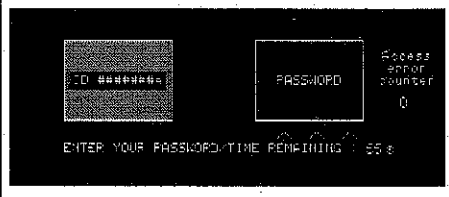
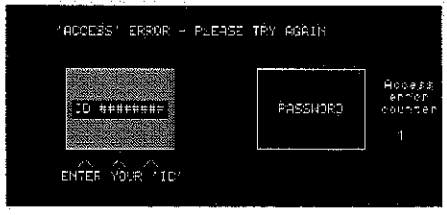


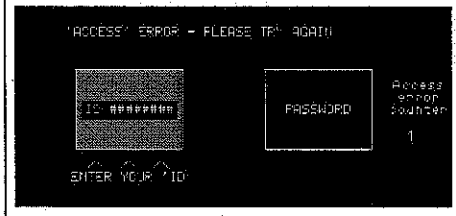
OPTIONS	
WARNING BANNER	**Display the last error occurred during a login attempt at login on the operator interface.** **3 messages:** • **'ACCESS' ERROR - PLEASE TRY AGAIN** • **ID must be entered before PASSWORD** • **'ACCESS' ERROR - LAST TRY for ID&PASSWORD**
SYSTEM LOCK WARNING	**When this message is displayed, the login is possible for the supervisor only. This message is displayed when the login attempt counter is equal or higher to three.** **SYSTEM LOCKED - CALL THE ADMINISTRATOR**
ID	**Identification number.** **Range: 1 to 8 alphanumeric characters.**
PASSWORD	**Password number.** **Range: 1 to 12 alphanumeric characters.**
COUNTER	**Login attempt counter.** **This count increased when:** • **A wrong ID is entered.** • **Password limit entry timer elapsed.**
MESSAGE	**Indicate the awaited action.** **2 messages:** • **ENTER YOUR 'ID'** • **ENTER YOUR PASSWORD/TIME REMAINING: 60s**
WASHER DESCRIPTION	**MODEL/#### ### ## - SN/########** **Technical service: Phone & Web site.** **PLC program version, Panel program version** **Side: loading or unloading side.**

1.3 EXAMPLE OF HOW TO ENTER PROPERLY ID AND PASSWORD TO GET THE LOG IN:

Example of how to enter properly ID and PASSWORD to get the log in		
1	The message banner indicates to entry the ID number.	
2		Press on the ID button. Enter the ID. Press the ENTER key to valid.
3	The message banner indicates to entry the PASSWORD number.	
4		Press on the PASSWORD button. Enter the PASSWORD. Press the ENTER key to valid.
5	The main menu is displayed	

Example of improper ID entry		
1	The message banner indicates to entry the ID number.	
2		Press on the ID button. Enter the ID. Press the ENTER key to valid.
3	If the ID is not defined	
4		The login attempt counter increases. The message 'ACCESS' ERROR – PLEASE TRY AGAIN is displayed.
5	The message banner still indicates to entry the ID number.	

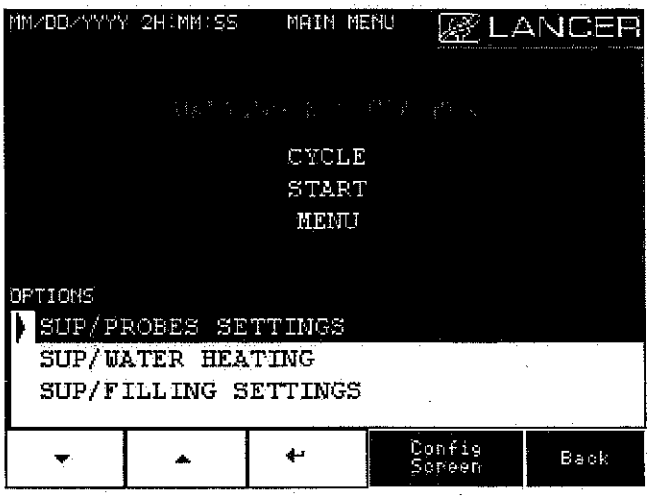
Example of improper PASSWORD entry		
1	The message banner indicates to entry the PASSWORD number.	
2		Press on the PASSWORD button. Enter the PASSWORD. Press the ENTER key to valid.
3	If the PASSWORD is not defined, the display remains in the same state and still wait a password known.	
4		If the password is recognized but it is not the available password then the login attempt counter is increased. The message 'ACCESS' ERROR – PLEASE TRY AGAIN is displayed.
5	Then the message banner indicates to entry the ID number.	

Example of 2 failed attempts detected		
1	If the ID entried is not available.	
2		Press on the ID button. Enter the ID. Press the ENTER key to valid.
3	The new ID is correct and the PASSWORD is not available.	
4		The login attempt counter is increased. The message 'ACCESS' ERROR – LAST TRY for ID&PASSWORD is displayed.
5		

Example of 3 failed attempts		
1	Two failed attempts detected, it is the last try to entry the ID and the PASSWORD. A third error is done.	
2		The login attempt counter is equal to three. Then only the supervisor can unlocked the system.

2. MAIN MENU

Through this menu, the user can have access to the functions corresponding to his access level.

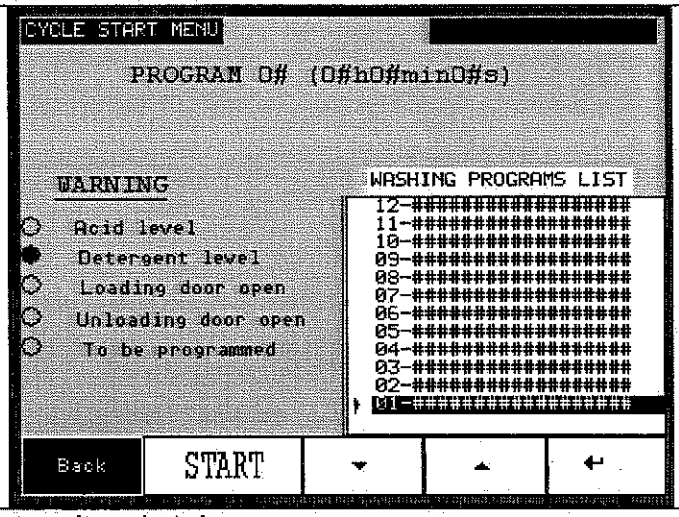
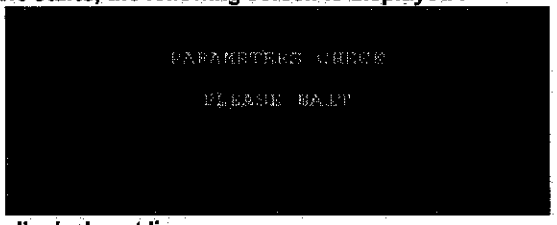


ITEMS	DESCRIPTIONS
CYCLE START MENU	Launching a cycle
OPTIONS	This selector list gives access to the available as in the table below. Touch to highlight. Use arrow keys to scroll around and enter key to display selected screen.
Config Screen	This brings up the PanelView 600 configuration screen. See section '§PanelView 600 configuration'
Back	Brings you back to the previous screen, which is always the login screen.

ITEMS	DESCRIPTIONS
CHEMICALS PUMPS PRIMING	Use to change the additive tank
USER ACCESS CODE	User Password, ID and name modification
TEC/DOSING PUMP CALIBRATION	Volume measurement
TEC/TRANSMITTERS CALIBRATION	Calibrate the transmitter value
TEC/TEMPERATURE PROBES CALIBRATION	Calibrate the temperature value
TEC/CONDUCTIVIMETERS	Configure the scaling parameters for conductivity inputs
TEC/PRINT & TICKET SIZE	Print option
TEC/INPUT STATE	On line inputs state
TEC/OUTPUTS TEST	Activation of the outputs one by one
TEC/ALARM HISTORY	Alarms history
SUP/PROGRAM SETTINGS	Modification of the program settings
SUP/TRANSMITTERS SETTINGS	Transmitter range and alarms.
SUP/TEMPERATURE PROBES SETTINGS	Probes alarms.
SUP/WATER HEATING	Adjust the different value for the water heating step
SUP/FILLING SETTINGS	Configuration of alarm time-outs.
SUP/DRAINING SETTINGS	Configure draining function parameters set-points
SUP/CLOSING VALVE DELAY	Chemicals valves opening period
SUP/COUNTERS & TIMERS	Follow-up of the life of the machine
SUP/DOOR LOCK TEMPERATURE	Doors lockup temperature set-point
SUP/PASSIVATION	Access to pre-configured program 13 for passivation

3. CYCLE START MENU

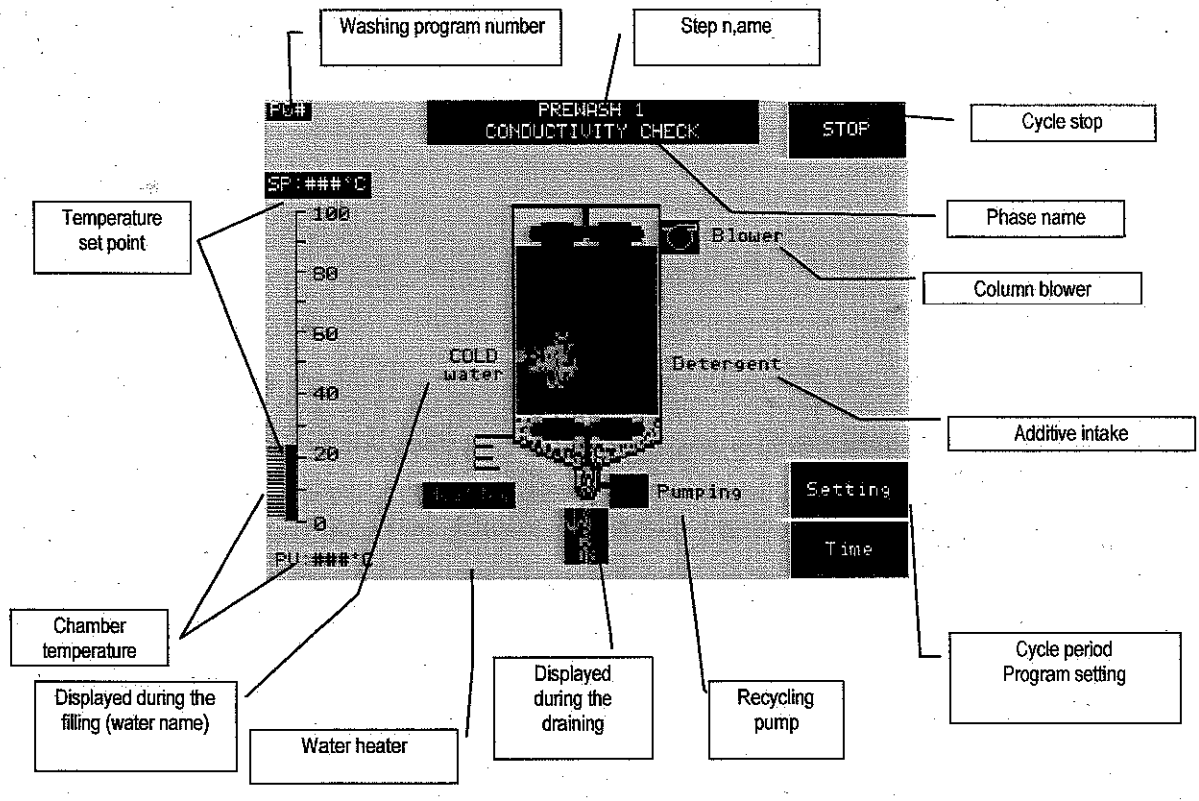
This menu is used to launch a washing program.

OPTIONS	
CURRENT PROGRAM	**Program number selected.**
WASHING PROGRAM LIST	**Selection of the washing program.** The program displayed in the list is not obligatorily the current program.
START	**Launching a cycle is available when 'START PROGRAM..' is displayed** ***'START PROGRAM 01 (1h25min43s) ?'* washing program number + last period** **When the cycle starts, the following screen is displayed :**  **See 'warning display' next line.**
WARNING display	**Displays information about problems detected on the washer.** **When something is not correct, one of the following message is flashing :** **#1.ACID LEVEL (tested if the cycle need acid intake).** **#2.DETERGENT LEVEL (tested if the cycle need detergent 1 intake).** **#3.(UN)LOADING DOOR OPEN (a door is open).** **#4.TO BE PROGRAMMED (Program selected is not programmed).**
INFORMATIONS DISPLAYED	**'User name' : If a name is defined to the level of access in progress, this name is displayed..**
Back	**Back to §Main menu**

3.1 How to launch a washing cycle.

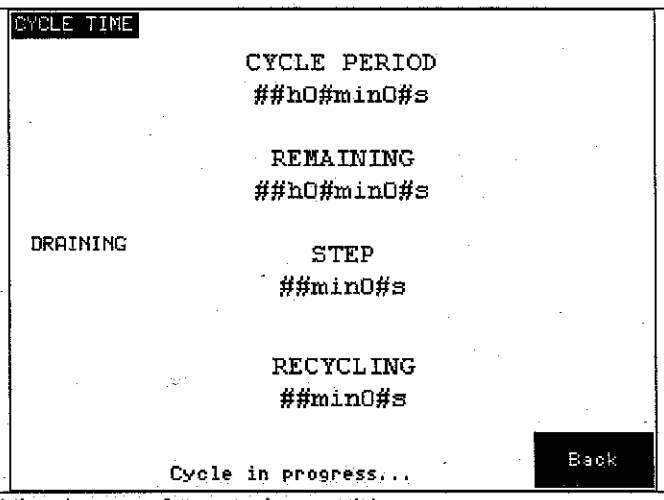
1. On the *CYCLE START* menu, select the washing program in the 'Washing program' list.
2. Press on the *START* button only if the message banner displays *START PROGRAM....* If the message banner displays *WARNING*, press on the *WARNING* button to have more information.

4. INFORMATION DURING THE CYCLE

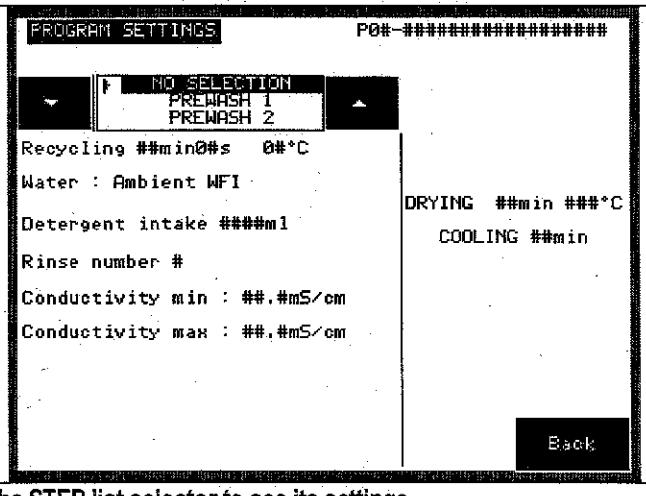


4.1 CYCLE INFORMATION WHEN THE CYCLE IS RUNNING

From the main screen during the washing, the *TIME* key calls the following screen.

OPTIONS	
CYCLE PERIOD	Total time (memory from previous cycle). The first time a program is activated, the "Cycle period" increases. If the program has been executed at least once, "Cycle period" displays the duration of the previously executed program.
REMAINING	Time remaining for the current program. Remaining time = Total Time - Time elapsed The first time a program is activated, "Remaining" always displays 0. If the program has been executed at least once, "Remaining" displays the remaining time ("Last time" -time elapsed). If the duration of the program running is greater than the previous, the remaining time displays the program duration.
STEP	Displays the Prewash 1/2/3... timer.
RECYCLING	Displays the recycling timer
INFORMATIONS DISPLAYED	'Cycle in progress' display if it is right 'Draining' when draining part is activated.
Back	Return to the previous screen.

From the main screen during the washing, the *SETTING* key calls the following screen.

OPTIONS	
WASH SETTINGS	Use the STEP list selector to see its settings. DRYING/COOLING : always displayed.
INFORMATIONS DISPLAYED	Washing program number and washing program name.
Back	Return to the previous screen.

From the main screen during the washing, the *STOP* key calls the following screen.

CYCLE STOP BY THE USER	
LOGIN	**Identify yourself to stop the cycle.**
Back	**Previous screen**

5. END OF THE CYCLE

5.1 OPENING OF THE DOORS

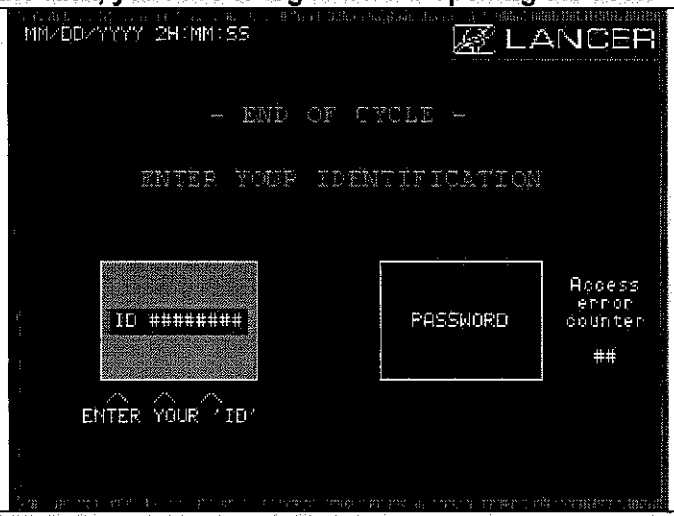
BURN RISK IF THE DOOR IS OPENED OVER 60°C.
AT THE END OF THE CYCLE, LET COOL THE SUPPORTS, BASKETS, ACCESORIES AND WASHED OBJECTS BEFORE HANDLING THEM.

5.2 END OF CYCLE

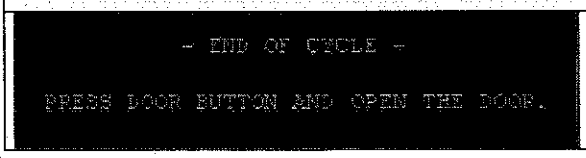
Loading side

OPTIONS	DESCRIPTION	
IF THE CHAMBER TEMPERATURE IS TOO HIGH		**NO ACTION ARE POSSIBLE ON THIS SIDE, MESSAGES DISPLAYED ONLY.**
- END OF CYCLE WAIT THE UNLOADING DOOR END.	- END OF CYCLE - WAIT THE UNLOADING END	**NO ACTION ARE POSSIBLE ON THIS SIDE, MESSAGES DISPLAYED ONLY.**

Unloading side This side is used to unload the rack, you have to log-in before opening the door.

DISPLAY WHEN THE TEMPERATURE IS CORRECT.	
STEP 1 **IDENTIFY YOURSELF**	**At the end of cycle, this screen is displayed.** **Please identify yourself.** **ATTENTION : If the chamber temperature is higher , identify yourself has no effect.**
STEP 2 **OPEN THE DOOR**	**When your login is recognized, press on the door push button and open it.**

OTHER MESSAGES

	If the chamber temperature is higher than the 'door lock temperature' set-point, pressing on the open push button would has no effect. You have to wait the cooling down of the chamber.
	Press on the door push button and open it.

5.3 SWITCHING OFF

Switch the washer OFF by turning the power-switch **-6-**.
Clean the filters of the bottom of the chamber (see page 42).

COMMENT

In case of an interruption of the electrical feeding, the program is returned to the initial point. It is convenient then to proceed again to the operations of BEGINNING OF A CYCLE It is convenient to execute again the complete washing cycle.

6. WASHING PROGRAMS

Cycles 1 to 12.

Estimated consumption of water per operation (depending on the used baskets):
45 to 50 liters

Flow-rate of the acid and detergent pumps (depending on the used products):
970 ml/mn

FUNCTIONS	POSSIBILITY	CYCLE 01	CYCLE 02	CYCLE 03	CYCLE 04
PREWASH 1 DURATION	0 to 30 mn				
PREWASH 1 TEMPERATURE	0 to 95 °C				
PREWASH 1 DETERGENT	0 to 360 s				
PREWASH 1 *CONDUCTIVITY CHECK*	0 to 20mS.				
PREWASH 2 DURATION	0 to 30 mn				
PREWASH 2 TEMPERATURE	0 to 95 °C				
PREWASH 2 DETERGENT	0 to 360 s				
PREWASH 2 *CONDUCTIVITY CHECK*	0 to 20mS				
PREWASH 3 DURATION	0 to 30 mn				
PREWASH 3 TEMPERATURE	0 to 95 °C				
PREWASH 3 DETERGENT	0 to 360 s				
PREWASH 3 *CONDUCTIVITY CHECK*	0 to 20mS.				
WASH DURATION	0 to 30 mn				
WASH TEMPERATURE	0 to 95 °C				
WASH DETERGENT	0 to 360 s				
WASH *CONDUCTIVITY CHECK*	0 to 20mS.				
RINSE A	0 to 9				
ACID RINSE DURATION	0 to 30 mn				
ACID RINSE *CONDUCTIVITY CHECK*	0 to 20mS.				
RINSE B	0 to 9				
RINSE 1 DURATION	0 to 30 mn				
RINSE 2 DURATION	0 to 30 mn				
RINSE 3 DURATION	0 to 30 mn				
RINSE 4 DURATION	0 to 30 mn				
FINAL RINSE DURATION	0 to 30 mn				
FINAL RINSE TEMPERATURE	0 to 95 °C				
FINAL RINSE *CONDUCTIVITY CHECK*	0 to 500µS.				
SUPER DRYING DURATION	0 to 90 mn				
SUPER DRYING TEMPERATURE	0 to 110°C				
COOLING DOWN	0 to 30 mn				

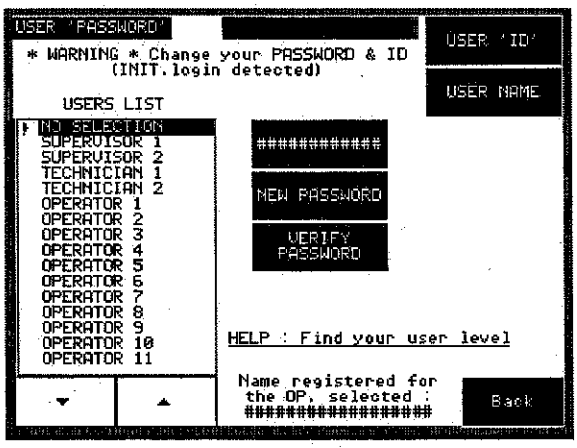
FUNCTIONS	POSSIBILITY	CYCLE 05	CYCLE 06	CYCLE 07	CYCLE 08
PREWASH 1 DURATION	0 to 30 mn				
PREWASH 1 TEMPERATURE	0 to 95 °C				
PREWASH 1 DETERGENT	0 to 360 s				
PREWASH 1 *CONDUCTIVITY CHECK*	0 to 20mS.				
PREWASH 2 DURATION	0 to 30 mn				
PREWASH 2 TEMPERATURE	0 to 95 °C				
PREWASH 2 DETERGENT	0 to 360 s				
PREWASH 2 *CONDUCTIVITY CHECK*	0 to 20mS				
PREWASH 3 DURATION	0 to 30 mn				
PREWASH 3 TEMPERATURE	0 to 95 °C				
PREWASH 3 DETERGENT	0 to 360 s				
PREWASH 3 *CONDUCTIVITY CHECK*	0 to 20mS.				
WASH DURATION	0 to 30 mn				
WASH TEMPERATURE	0 to 95 °C				
WASH DETERGENT	0 to 360 s				
WASH *CONDUCTIVITY CHECK*	0 to 20mS.				
RINSE A	0 to 9				
ACID RINSE DURATION	0 to 30 mn				
ACID RINSE *CONDUCTIVITY CHECK*	0 to 20mS.				
RINSE B	0 to 9				
RINSE 1 DURATION	0 to 30 mn				
RINSE 2 DURATION	0 to 30 mn				
RINSE 3 DURATION	0 to 30 mn				
RINSE 4 DURATION	0 to 30 mn				
FINAL RINSE DURATION	0 to 30 mn				
FINAL RINSE TEMPERATURE	0 to 95 °C				
FINAL RINSE *CONDUCTIVITY CHECK*	0 to 500µS.				
SUPER DRYING DURATION	0 to 90 mn				
SUPER DRYING TEMPERATURE	0 to 110°C				
COOLING DOWN	0 to 30 mn				

FUNCTIONS	POSSIBILITY	CYCLE 09	CYCLE 10	CYCLE 11	CYCLE 12
PREWASH 1 DURATION	0 to 30 mn				
PREWASH 1 TEMPERATURE	0 to 95 °C				
PREWASH 1 DETERGENT	0 to 360 s				
PREWASH 1 *CONDUCTIVITY CHECK*	0 to 20mS.				
PREWASH 2 DURATION	0 to 30 mn				
PREWASH 2 TEMPERATURE	0 to 95 °C				
PREWASH 2 DETERGENT	0 to 360 s				
PREWASH 2 *CONDUCTIVITY CHECK*	0 to 20mS				
PREWASH 3 DURATION	0 to 30 mn				
PREWASH 3 TEMPERATURE	0 to 95 °C				
PREWASH 3 DETERGENT	0 to 360 s				
PREWASH 3 *CONDUCTIVITY CHECK*	0 to 20mS.				
WASH DURATION	0 to 30 mn				
WASH TEMPERATURE	0 to 95 °C				
WASH DETERGENT	0 to 360 s				
WASH *CONDUCTIVITY CHECK*	0 to 20mS.				
RINSE A	0 to 9				
ACID RINSE DURATION	0 to 30 mn				
ACID RINSE *CONDUCTIVITY CHECK*	0 to 20mS.				
RINSE B	0 to 9				
RINSE 1 DURATION	0 to 30 mn				
RINSE 2 DURATION	0 to 30 mn				
RINSE 3 DURATION	0 to 30 mn				
RINSE 4 DURATION	0 to 30 mn				
FINAL RINSE DURATION	0 to 30 mn				
FINAL RINSE TEMPERATURE	0 to 95 °C				
FINAL RINSE *CONDUCTIVITY CHECK*	0 to 500µS.				
SUPER DRYING DURATION	0 to 90 mn				
SUPER DRYING TEMPERATURE	0 to 110°C				
COOLING DOWN	0 to 30 mn				

7. PASSWORDS

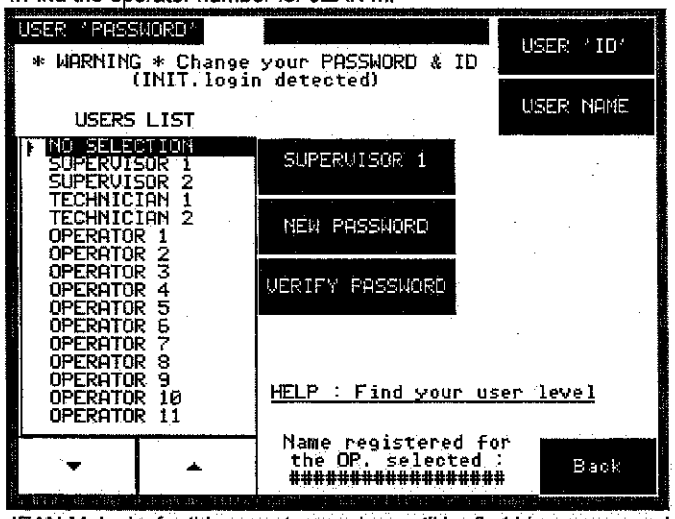
Each operator interface has his own management of the passwords & ID. The system can have the same users on the two sides or the users for the loading side and the users for the unloading side.

7.1 HOW TO CHANGE YOUR PASSWORD.

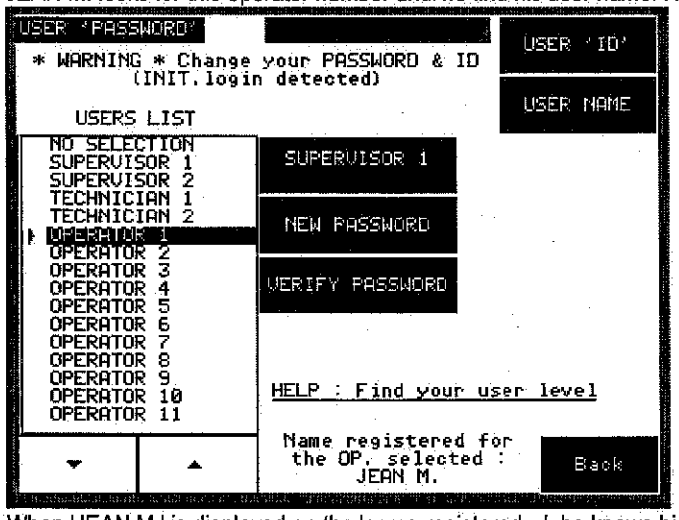
DISPLAY		DESCRIPTION
	**STEP 1**	**Select your operator level. (i.e. SUPERVISEUR 1).** **How to find your operator level ?** **If you do not know your operator level, use the operator list at the bottom of this screen. Select the operator until you find your name.**
	STEP 2	Press on the NEW PASSWORD button. Enter your new password.
	STEP 3	When the new password is entered, a message indicates to verify your new password. Then press any key to clear this message. Press on the VERIFY PASSWORD button. Enter your new password.
	STEP 4	**When the verification password is entered and if it is correct, a message indicates that the new password is registered. Then press any key to clear this message.**
	ID	**Screen used to modify the ID of the user login.**
	NAME	**Supervisor only**
	Back	**Go back to the ACCESS screen.**

Example of changing a password for the user called JEAN M. :

1/Find the operator number for JEAN M.

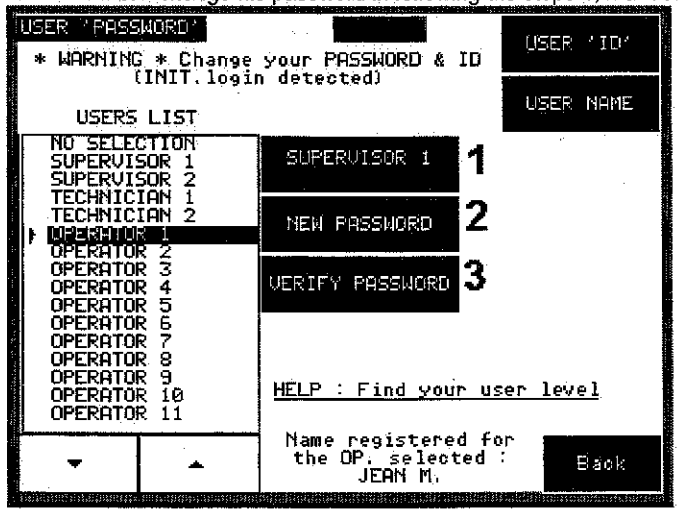


JEAN M. looks for this operator number until he find his user name. His name should appears in 'Name registered for the OP. selected'.



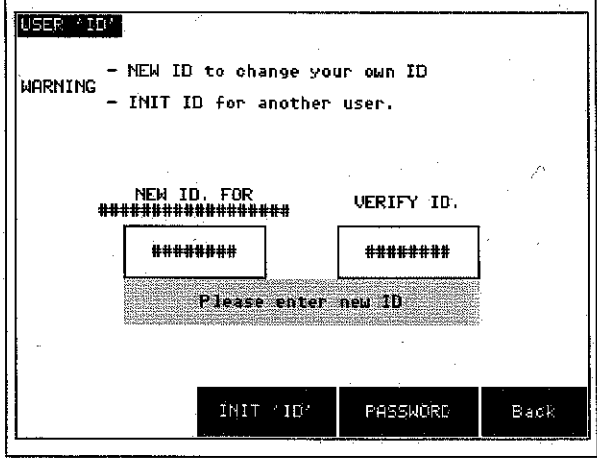
When 'JEAN M.' is displayed on the 'name registered...', he knows his operator number, and in this example it is : OPERATOR 1.

2/JEAN M. can change his password in following the steps 1, 2 and3.



7.2 HOW TO CHANGE YOUR ID

Use this function to change your login ID.
Each user can only change his own login ID; he has to be the current user.

SCREEN	DESCRIPTION	
	**STEP 1**	Press on the NEW ID button. Enter your new ID.
	STEP 2	When the new ID is entered, you are prompted to verify your new ID. Press on the VERIFY ID button. Enter your new ID.
	STEP 3	When the verify ID is entered and if it is correct, a message indicates that the new ID is changed.
	INIT 'ID'	Supervisor only. Opens ID initialization screen
	PASSWORD	Opens Password modification screen.
	Back	Back to the ACCESS screen.

CHAPTER 4 TRACEABILITY

These last years, TRACEABILITY has become in the hospital milieu in a crucial issue. The matter is to control permanently the correct development of the washing cycle and to obtain its validation.

TRACEABILITY enables the supervision of the correct performance of parameters such as washing, chamber filling, detergent taking, effective temperature, duration of the phases.

During the development of the program all the data must be registered, archived in paper support and, optionally, on data support.

You will find in this chapter the system of traceability installed in your washer.

1 THE PRINTER

2 CONDUCTIVITY METER

1. PRINTER

ITS RESULTS:

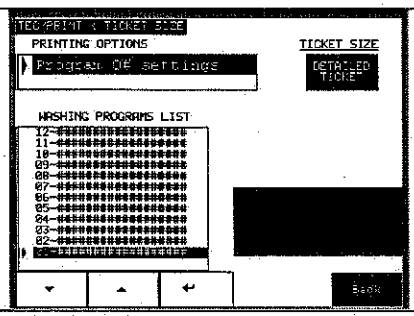
At the end of the program, the results are registered and archived, whether on a paper support by the mean of an horodated ticket.

IMPRESSION OF A REPORT

The date, the hour, the number of phases of the program as well as their denomination are printed in the ticket, these durations can vary from one cycle to the other.

1.1 Print out, ticket size.

This menu is used to select the size of the printout and to print settings.

OPTIONS	
WASHING PROGRAM LIST	**Selection of the washing program.** **Press on the cell and use the arrows keys to change the selection. Press on the enter key the valid.**
Machine configuration/ Cycle configuration	Print the general machine parameters. Print the configuration of the currently selected cycle. Press on the cell and use the arrows keys to change the selection. Press on the enter key the valid.
Ticket size	Detailed ticket: all parts of the cycle are printed Basic ticket: begin and end of the cycle are printed.
Print in progress	Displayed when a print is in progress
Back	**Retour au menu principal**

EXAMPLE OF PRINTOUT.

The ticket depend of the washer options.

MACHINE CONFIGURATION

```
* WASHER CONFIGURATION *                    Title
01/16/2002  13:32:51                        Date and time

- PROBES -                                  Temperature probes + Alarm
Chamber heating: 26.5°C  Max: 110°C
Offset : 0.0°C
Chamber Drying : 25.3°C  Max: 150°C
Offset : 0.0°C
Column Drying  : 25.9°C
Offset : 0.0°C

- TRANSMITTER -
RECYCLING PUMP Range : 0-4000mbars          Transmitter range
Alarm : Min:100mbars Max:4000mbars          Alarms

- FLOWMETERS -
DETERGENT PUMP
Range : 1021p/min  600ml/min                Pulses and quantity intake per min
Alarm : Min:15% Max:15%

WASHER  : ########                          Washer model
SERIAL NR : ########                        Serial number

*** LANCER ***                              Manufacturer
```

CYCLE PARAMETERS

```
Cycle setting * PROGRAM 10 *                Title
01/16/2002  13:32:51                        Date and time

PREWASH 1 : 1min05s  35°C                   Step name + recycling period + temp.
Detergent : 0186ml                          Water used
Water  : HUSP

PREWASH 3 : 1min15s  40°C
Detergent : 0248ml
Water  : HUSP

PREWASH 3 : 1min15s  40°C
Detergent : 0248ml
Water  : HUSP

FINAIRINSE: 5min00s  75°C
Conductiv.: 250µS.                          Conductivity alarm
Water  : HUSP

SDRYING  : 5min  110°C
COOLING  : 1min

WASHER  : ########                          Washer model
SERIAL NR : ########                        Serial number

*** LANCER ***                              Manufacturer
```

CYCLE REPORT

```
FUNCTION ANALYSYS - Complete ticket         Title + ticket size
Program N°7 - BIG TOOLS                     Program number + name
######## - ########                         Washer model + serial number
By user : JOHN M.                           Operator who has launched the cycle

Hours : 3h15min  Cycles : 2                 Total hours + start counter
Start : 11/05/2002  16:42:01                Start date and time

PREWASH 1 - 5min48s                         Step period
Filling  : 0min32s  (PW)                    Filling period
Detergent : 0min56s  0200ml                 Detergent intake period + quantity
°C prog.  : 90°C                            Temperature programmed
Heating  : 2min49s                          Heating period
Recycling : 0min10s                         Recycling period
Min.: 90.1°C /Max.: 93.1°C                  Minimum and maximum temperature
Draining  : 1min15s                         Draining period

RINSE A 1/1 - 1min57s
Filling  : 0min32s  (CWFI)
Recycling : 0min10s
Min.: 90.1°C /Max.: 93.1°C
Draining  : 1min15s

FINAIRINSE - 9min15s
Filling  : 0min38s  (HWHI)
°C prog.  : 55°C
Heating  : 1min12s
Recycling : 5min00s
Min.: 50.2°C /Max.: 51.8°C
WaterCheck: 10s_1.5µS.
FinalDrain: 2min15s

End      : 11/05/2002  16:59:01             End time and date
Cycle period: 0h17min00s                    Cycle period

Cycle Ack. : 11/05/2002  17:20:26           Acknowledgement date and time
By user   : KARL S.                         Operator who has acknowleged

Date :

Signature :

*** LANCER ***
```

* *PART PRINT WHEN 'BASIC' TICKET SELECTED*

CYCLE REPORT with ALARM

```
FUNCTION ANALYSYS - Complete ticket
Program N°7 - BIG TOOLS
######## - ########
By user : JOHN M.

Hours : 3h15min  Cycles : 2
Start : 11/05/2002  16:42:01

PREWASH 1 - 5min48s
Filling  : 0min32s  (PW)
Detergent : 0200ml
°C prog.  : 90°C
Heating  : 2min49s
Recycling : 0min10s
Min.: 90.1°C /Max.: 93.1°C
Neutral.  : 0060ml (+Recycling:30s)
Draining  : 1min15s

RINSE A 1/1 - 1min57s
Filling  : 0min32s  (CWFI)
Recycling : 0min10s
Min.: 90.1°C /Max.: 93.1°C
Draining  : 1min15s

ALARM NUMBER : 78                           Alarm number
FINAL RINSE CONDUCTIVITY                    Alarm description

End      : 11/05/2002  16:50:27             End time and date
Cycle period: 0h07min45s                    Cycle period

Cycle Ack. : 11/05/2002  16:55:26           Acknowledgement time and date
By user   : KARL S.                         Operator who has launched the cycle

Date :

Signature :

*** LANCER ***
```

Alarms : stop of the cycle. The cycle has to be started from its own beginning.

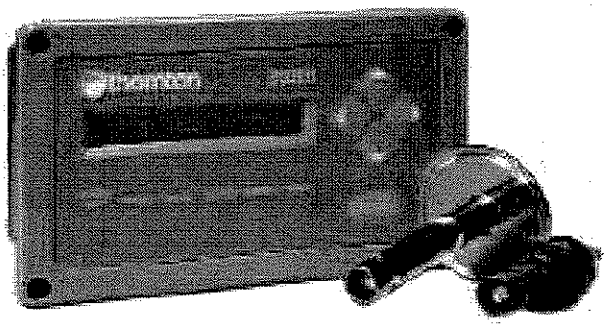
2. CONDUCTIVITY METER (final rinse & chemical verification)

2.1 USE AND ADJUNTMENT

Refer to the manual of the instruments

2.2 MEASURING OF THE CONDUCTIVITY

They enable the control of the quality of the water. The conductivity values are equally printed in the ticket.



CHAPTER 5 MAINTENANCE OF THE WASHER

This chapter describes the maintenance operations to assure the good working of your washer.

1 DRYING AIR FILTERS

2 CHAMBER FILTERS

3 EXTERNAL MAINTENANCE OF THE WASHER

4 PREVENTIVE MAINTENANCE

NEVER USE OR PLACE IN THE WASHER REMMANTS OF PRODUCTS SUCHS AS ACETONE, SOLVANTS, OIL, SULFO-CROMIC, PETROL DERIVEDS, ACIDS (SULFURIC, NITRIC, CLORHIDRIC, EVEN AT LOW CONCENTRATIONS), ETC...

DURING THE CLEANING OPERATIONS INSIDE THE CHAMBER, IT IS CONVENIENT TO BE PROVIDED WITH GLOVES AND TO PAY ATTENTION TO THE EVENTUAL EDGE TOOLS (NEEDLES, INSTRUMENTS...) WHICH COULD BE PLACED INSIDE THE FILTERS OF THE BOTTOM OF THE CHAMBER.

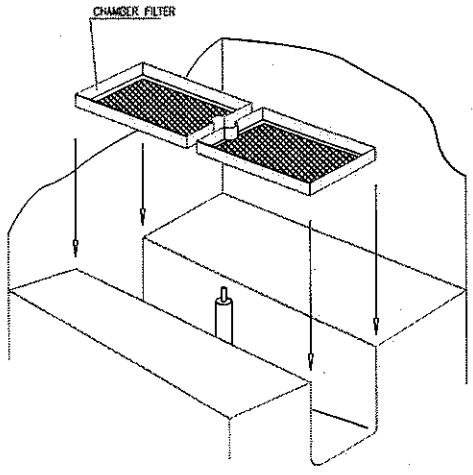
1. DRYING AIR FILTERS

The life duration of the drying air filters depends on the rate of use of the washer and of the quality of the near air.
We recommend the preventive change of the drying air filters at least one time every year.

Check visually the pressure indicates on the two manometers placed on the panel. The value indicated by the red needle must be inferior to the black needle.

2. CHAMBER FILTERS

Clean the filters after each cycle.



3. EXTERNAL MAINTENANCE OF THE WASHER

LANCER washers are entirely covered with panels (bodywork) in stainless steel AISI 304L.

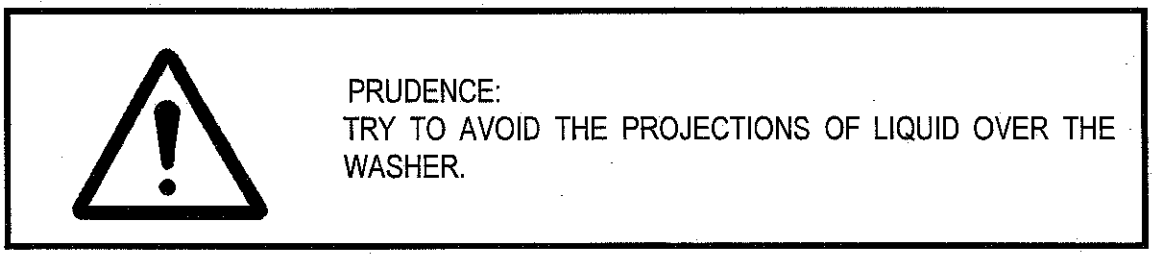
CLEANING METHOD

The periodic maintenance cleaning must be done with a cleaning product.

Should the periodic maintenance have been largely forgotten, we recommend the use of a specific cleaning product.

The product must be applied with the help of a rag or a soft sponge, and always polishing the stainless steel in the sense of the brushing to avoid the risk of stripes.

For the drying, the best is using a rubber scraper similar to the one used to clean windows. This will avoid watering you can have with a rap cleaning.



CLEANING PRODUCTS

LANCER offers a maintenance product for stainless steel in the market under the name of LANCERSHINE.

A safe and efficient aerosol cleaning product for a use in the external side of the stainless machines and other equipments to be washed, assuring a very professional finishing.

Available in container of 450 ml. Ref: LANCERSHINE

Detergents, soaps:

All the detergents, soaps or cleaning products found in shops can normally be used, but they MUST NOT contain chlorinated products. Domestic soaps for dishwashers or washing machines are particularly adapted to the periodical cleaning.

Abrasive dusts:

These products can stripe the stainless steel surfaces and modify then the aspect, at least locally. Even that, their use can be useful to eliminate by scraping the adherent spots.

Acid products:

The resource to these acid-cleaning products must only be used in specific cases.
Vinegar (acetic acid) can be used to remove stains left by minerals.
There are phosphoric acid-based or nitric acid-based products specially conceived for the cleaning of stainless steels. It is convenient to follow strictly the instructions given by theirs manufacturers.
The chloric disinfectants must only be used with caution: diluted solution in cold water, short contact time, abundant rinsing.

IN ALL THE CASES IT IS NECESSARY TO PROCEDE AFTER THE CLEANING TO AN ABONDANT AND CAREFUL RINSING (WITH A SOFT TEXTILE), IN ORDER TO ELIMINATE EVERY TRACE OF THE USED PRODUCT.

4. PREVENTIVE MAINTENANCE

LANCER'S TECHNICAL ASSISTANCE SERVICE recommends to all the users at least one annual preventive maintenance visit.

The preventive maintenance reduces the risks of stops of the washer due to breakdowns and enables enlarge the life duration of the equipment.

Depending on the countries where the washer is used and the local norms, a higher frequency of preventive maintenance visits can be necessary.

CHAPTER 6 ALARMS

In this chapter you will find all the alarms that you could find in your washer.

1 ALARMS LIST

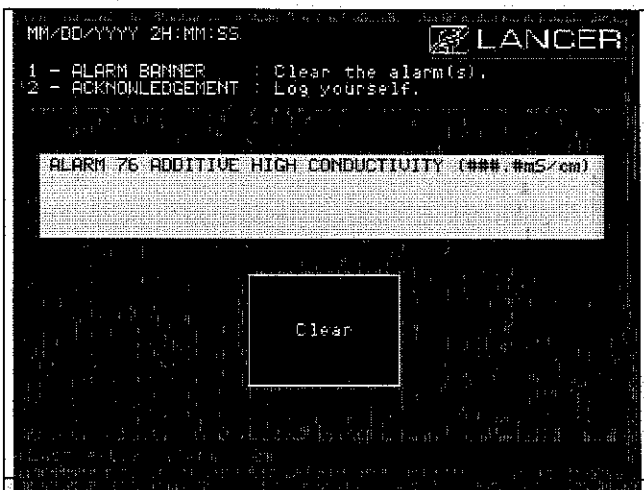
2 HOW TO PROCESS TO CLEAR AN ALARM

1. ALARMS LIST

Alarm number	Alarm name	Possible cause	Solution
1	Draining fault	The machine has not been completely emptied by the end of the normal emptying time, as specified in machine configuration.	Check that drain pipe or drain valve is not obstructed, verify operation of drain valve(s).
10	Filling fault – DI	During the filling phase, the machine has not reached its required filling level, before the lapsing of the normal filling time, as specified in machine configuration.	Check opening of valves, pressure of water supply.
11	Filling fault – WFI	During the filling phase, the machine has not reached its required filling level, before the lapsing of the normal filling time, as specified in machine configuration.	Check opening of valves, pressure of water supply.
19	Overflowing	High level pressurestat Overflow input "ON" for 2s	Check the water level
20	Column pressure : out of range - low	Pressure in the column is lower than the minimum set point programmed	Check that the baskets are in the machine or that the rack ports are capped accordingly. Check that the pump operates Check the door switches Check the transmitter calibration.
21	Column pressure : unexpected	Pump pressure transmitter is above minimum set point value when not necessary	Check the transmitter (look at the pressure and calibrate it if necessary). Check the low limit value for the pressure alarm. (This value is used for this alarm). Pressure transmitter must give 4mA when the pump is stopped.
22	Column pressure : out of range - high	Pump pressure transmitter is above Max set point value	Check column piping Check the transmitter Verify that there is no blockage in the column piping
29	Recycling pump : transmitter defect	The transmitter signal is out of range	Check the transmitter
30	Acid intake : out of range - low	Pressure is lower than programmed	Check the level in the acid tank and fill if necessary. The calibration is not correct: start the calibration (2 calibrations minimum). ⚠ Don't forget to drain the chamber after the output test. (Fill the chamber with a water input test and drain it)
31	Detergent intake : out of range - low	Pressure is lower than programmed	Check the level in the detergent tank and fill if necessary. The calibration is not correct: start the calibration (2 calibrations minimum). ⚠ Don't forget to drain the chamber after the output test. (Fill the chamber with a water input test and drain it)
34	Acid intake : unexpected	Signal "ON" when not necessary	Check the non leaking valve
35	Detergent intake : unexpected	Signal "ON" when not necessary	Check the non leaking valve
38	Acid intake : out of range – high	Acid pressure transmitter is above Max set point value when not necessary	Check piping Check the transmitter Verify that there is no blockage in the acid line
39	Detergent intake : out of range – high	Detergent pressure transmitter is above Max set point value when not necessary	Check piping Check the transmitter Verify that there is no blockage in the detergent line
50	Water temperature exceeds set point	The temperature is higher than programmed.	Check the "value over-temperature" Check the water inlet temperature Verify the probe reads correctly Verify that the steam valve is closed

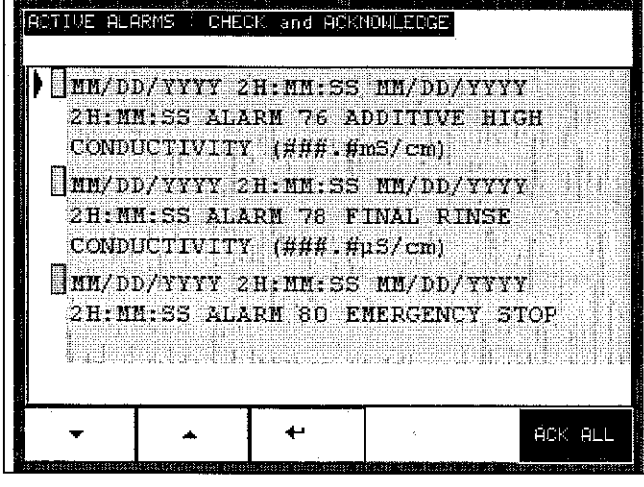
51	Water heating fault	This message is displayed during the heating phase if the water temperature has not increased to 2°C/min.	Check electrical connection, state of heating elements and safety thermal cut out.
52	Column drying fault	This message is displayed during the heating phase if the temperature has not reached the set point before 3 minutes	Check the heaters Check the probe
53	Chamber drying fault	This message is displayed during the heating phase if the temperature has not reached the set point before 3 minutes	Check the heaters Check the probe
54	Water heating maximum temperature	The temperature is over the maximum allowed	Check the probe max value parameter. Check the probe
55	Column drying maximum temperature	The temperature is over the maximum allowed	Check the probe max value parameter. Check the probe
56	Chamber drying maximum temperature	The temperature is over the maximum allowed	Check the probe max value parameter. Check the probe
66	Acid pump : transmitter defect	The transmitter signal is out of range	Check the transmitter
67	Detergent pump : transmitter defect	The transmitter signal is out of range	Check the transmitter
70	Water heating : probe defect	No signal	Verify the probe. Check the wire connections.
71	Column drying : probe defect	No signal	Verify the probe. Check the wire connections.
72	Chamber drying : probe defect	No signal	Verify the probe. Check the wire connections.
73	Additive conductivity : probe defect	The signal from the conductivity meter is out of range	Verify the wire connection Check the signal (re-calibrate if necessary)
74	Final rinse conductivity : probe defect	The signal from the conductivity meter is out of range	Verify the wire connection Check the signal (re-calibrate if necessary)
75	Additive low conductivity	Conductivity value is out of range	- Refer to "§Conductivity meter" setting.
76	Additive high conductivity	Conductivity value is out of range	Refer to "§Conductivity meter" setting.
78	Final rinse conductivity	Conductivity value > Set point	Refer to "§Conductivity meter" setting.
80	Emergency stop	Emergency button active	Use the key to unlock the button and reset the alarm.
82	User stop	User stop the cycle	
83	Main power circuit breaker off	The power supply breaker is turned off.	Check the breaker "Q4". (Turn on the breaker if necessary). Then check input "POWER CIRCUIT BREAKER CONTACT"=1 (ON) Check the wire connections.
84	Initialization	The machine power has turned off.	Initialization
90	Loading door open	The door is not correctly closed or a switch is defective.	Check door closing and door switches.
90	Unloading door open	The door is not correctly closed or a switch is defective.	Check door closing and door switches.

2. HOW TO PROCESS TO CLEAR AN ALARM


MM/DD/YYYY 2H:MM:SS
LANCER
1 - ALARM BANNER : Clear the alarm(s).
2 - ACKNOWLEDGEMENT : Log yourself.
ALARM 76 ADDITIVE HIGH CONDUCTIVITY (###.#mS/cm)
Clear

For an alarm, the alarm banner is displayed. Clear the alarm banner by pressing on the CLEAR button

Identify yourself.


ACTIVE ALARMS : CHECK and ACKNOWLEDGE
MM/DD/YYYY 2H:MM:SS MM/DD/YYYY 2H:MM:SS ALARM 76 ADDITIVE HIGH CONDUCTIVITY (###.#mS/cm)
MM/DD/YYYY 2H:MM:SS MM/DD/YYYY 2H:MM:SS ALARM 78 FINAL RINSE CONDUCTIVITY (###.#µS/cm)
MM/DD/YYYY 2H:MM:SS MM/DD/YYYY 2H:MM:SS ALARM 80 EMERGENCY STOP
ACK ALL

On this screen you have the alarms history for the washer. Press on ACK ALL to acknowledge the active alarm.